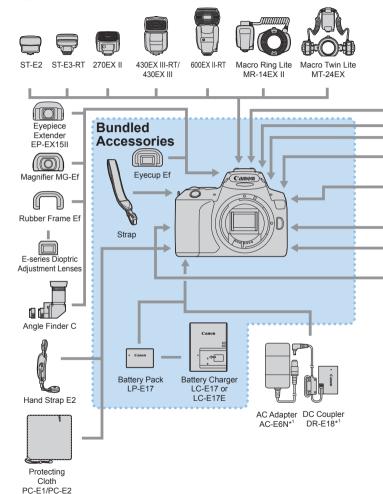
Canon

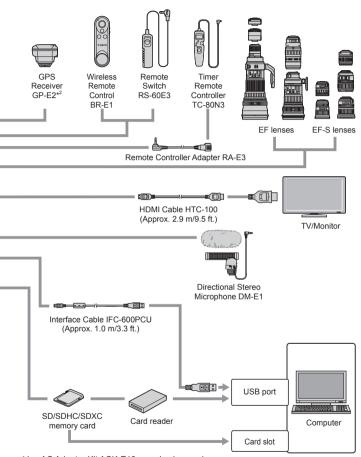


Supplemental Information



System Map





- *1: AC Adapter Kit ACK-E18 can also be used.
- *2: The digital compass cannot be used with this camera. (Shooting direction will not be recorded.)

Specifications

Type

Type: Digital, single-lens reflex, AF/AE camera with built-in flash

Recording media: SD/SDHC*/SDXC* memory cards

* UHS-I cards supported

Image sensor size: Approx. 22.3 x 14.9 mm

Compatible lenses: Canon EF lenses (including EF-S lenses)

* Excluding EF-M lenses

(35mm-equivalent angle of view is that of a lens with

approx. 1.6x the focal length indicated.)

Lens mount: Canon EF mount

Image Sensor

Type: CMOS sensor (Compatible with Dual Pixel CMOS AF)

Effective pixels: Approx. 24.1 megapixels

* Rounded to the nearest 100,000.

Aspect ratio: 3:2

Dust deletion: Auto, Dust Delete Data appending

Recording System

Recording format: Design rule for Camera File System (DCF) 2.0

Image type: JPEG, RAW (14-bit Canon original), C-RAW (Canon original), RAW +JPEG Large simultaneous recording

possible

Pixels recorded: L (Large) : 24.0 megapixels (6000 x 4000)

M (Medium) : Approx. 10.6 megapixels (3984 x 2656) S1 (Small 1) : Approx. 5.9 megapixels (2976 x 1984) S2 (Small 2) : Approx. 3.8 megapixels (2400 x 1600)

RAW/C-RAW: 24.0 megapixels (6000 x 4000)

Aspect ratio: 3:2, 4:3, 16:9, 1:1

Folder Creation/selection: Possible

File numbering: Continuous, Auto reset, Manual reset

■ Image Processing During Shooting

Picture Style: Auto, Standard, Portrait, Landscape, Fine Detail, Neutral,

Faithful, Monochrome, User Defined 1-3

White balance: Auto (Ambience priority), Auto (White priority), Preset

(Daylight, Shade, Cloudy, Tungsten light, White fluorescent

light, Flash), Custom

White balance correction, and White balance bracketing

provided

* Flash color temperature information transmission possible

Noise reduction: Applicable to long exposures and high ISO speed shots

Automatic image Auto Lighting Optimizer provided

brightness correction:

Highlight tone priority: Provided

Lens aberration correction: Digital Lens Optimizer, Peripheral illumination correction,

Distortion correction, Chromatic aberration correction,

Diffraction correction

■ Viewfinder

Type: Eye-level pentamirror

Field of view coverage: Vertical/Horizontal approx. 95%

(with Eye point approx. 19 mm)

Magnification: Approx. 0.87x (-1 m⁻¹ with 50mm lens at infinity)

Eyepoint: Approx. 19 mm (from eyepiece lens center at -1 m⁻¹)

Dioptric adjustment range: Approx. $-3.0 - +1.0 \text{ m}^{-1}$ (dpt)

Focusing screen: Fixed, Precision Matte

Mirror: Quick-return type

Depth-of-field preview: Available (with customized DISP button setting)

■ Autofocus (for viewfinder shooting)

Type: TTL secondary image-registration, phase-difference

detection with the dedicated AF sensor

AF points: 9-point AF (Center point: cross-type, vertical line sensitive

when supporting f/2.8)

Focusing brightness range: EV –0.5 – 18 (with the center AF point supporting f/2.8.

One-Shot AF, at room temperature, ISO 100)

Focus operation: One-Shot AF, AI Servo AF, AI Focus AF, Manual focusing

(MF)

AF-assist beam: Built-in flash: Intermittent firing

External Speedlite: Infrared firing, Intermittent firing

■ Exposure Control

Metering mode: 63-zone TTL open-aperture metering

· Evaluative metering (linked to all AF points)

Partial metering (approx. 9.0% of viewfinder at center)
Spot metering (approx. 4.0% of viewfinder at center)

· Center-weighted average metering

Metering brightness range: EV 1 – 20 (at room temperature, ISO 100)

Shooting mode: Basic Zone modes:

Scene Intelligent Auto, Special scene modes (Portrait, Smooth skin, Group Photo, Landscape, Sports, Kids, Close-up, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control), Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Water painting effect, Toy camera effect, Miniature effect, HDR art standard, HDR art

vivid, HDR art bold, HDR art embossed)

Creative Zone modes:

Program AE. Shutter-priority AE. Aperture-priority AE.

Manual exposure

ISO speed

(Recommended Creative Zone modes: ISO speed set automatically

(Recommended Creative Zone modes: ISO Auto, ISO 100 – 25600 set

exposure index): manually (whole-stop increments), and ISO expansion to H

(equivalent to ISO 51200) provided

Exposure compensation: Manual: ±5* stops in 1/3- or 1/2-stop increments

* ±3 stops with [Shooting screen: Guided] set

AEB: ±2 stops in 1/3- or 1/2-stop increments (can be combined with manual exposure compensation)

AE lock: Auto: Applied in One-Shot AF with evaluative metering when

focus is achieved

Manual: With AF lock button

Shutter

Type: Electronically-controlled, focal-plane shutter

Shutter speed: Basic Zone modes: 1/4000 – 1 sec.

Creative Zone modes: 1/4000 - 30 sec., bulb

■ Drive System

speed:

Drive mode: Single shooting, Continuous shooting, Silent single shooting,

Silent continuous shooting

Self-timer: 10 sec / remote control*, 2 sec, Continuous

* When Wireless Remote Control BR-E1 (sold separately)

Silent continuous shooting: Max. approx. 2.5 shots/sec.

is used.

Continuous shooting

Max. approx. 5.0 shots/sec.

Max. burst: JPEG Large/Fine: Full

RAW: Approx. 10 shots C-RAW: Approx. 37 shots

RAW+JPEG Large/Fine: Approx. 9 shots C-RAW+JPEG Large/Fine: Approx. 17 shots

* The number of possible shots and standard maximum burst apply to a UHS-I compliant 32 GB card based on Canon testing standards.

* Maximum burst varys depending on shooting conditions (including aspect ratio, subject, memory card brand, ISO

speed, Picture Style, and Custom Function).

* "Full" indicates that shooting is possible until the card

becomes full.

■ Flash

Built-in flash: Retractable flash

Guide No.: Approx. 9.8/32.1 (ISO 100, in meters/feet)
Flash coverage: Approx. 18mm lens angle of view

Recharge time: Approx. 3 sec.

External Speedlite: Compatible with EL/EX-series Speedlites

Flash metering: E-TTL II autoflash

Flash exposure Built-in flash: ±2 stops in 1/3- or 1/2-stop increments compensation: External Speedlite: ±3 stops in 1/3- or 1/2-stop increments

FE lock: Provided
PC terminal: Not provided

Flash control: Built-in flash function settings, external Speedlite function

settings, external Speedlite Custom Function settings

Live View Shooting

Focus method: Dual Pixel CMOS AF system

AF method: Face+Tracking, Zone AF, 1-point AF, Spot AF

Manual focus (approx. 5x / 10x magnification available for

focus check)

AF operation: One-Shot AF, Servo AF

Focusing brightness range: EV -4 - 18 (with the center AF point, at room temperature,

f/1.2, ISO 100, One-Shot AF)

Metering mode: Real-time metering using the image sensor

384-zone (24×16) metering

Still photo shooting:

Evaluative metering (linked to all AF points)

Partial metering (approx. 5.5% of screen, at center)
Spot metering (approx. 3.7% of screen, at center)

· Center-weighted average metering

Metering brightness range: EV -2 - 20 (at room temperature, ISO 100)

Exposure compensation: ±3 stops in 1/3-stop or 1/2-stop increments

Creative filters: Provided
Touch Shutter: Provided
Grid display: Three types

Movie Shooting

Recording format: MP4

Movie: MPEG-4 AVC / H.264

Variable (average) bit rate

Audio: AAC

Recording size and frame 4K (3840x2160) : 23.98p/25.00p rate: Full HD (1920x1080) : 59.94p/50.00p/

29.97p/25.00p

HD (1280x720) : 59.94p/50.00p HDR movie (1920x1080) : 29.97p/25.00p 4K Time-lapse movie (3840x2160) : 29.97p/25.00p Full HD Time-lapse movie (1920x1080) : 29.97p/25.00p

Compression method: IPB (Standard), IPB (Light)

* Time-lapse movie shooting: ALL-I

Bit rate: 4K (23.98p/25.00p)/IPB (Standard) : Approx. 120 Mbps

Full HD (59.94p/50.00p)/IPB (Standard): Approx. 60 Mbps
Full HD (29.97p/25.00p)/IPB (Standard): Approx. 30 Mbps
Full HD (29.97p/25.00p)/IPB (Light): Approx. 12 Mbps
HD (59.94p/50.00p)/IPB (Standard): Approx. 26 Mbps

Focus system: • Dual Pixel CMOS AF system

· Contrast detection*

* When recording 4K movies or 4K Time-lapse movies

AF method: Face+Tracking, Zone AF*, 1-point AF, Spot AF*

* Not available in 4K movie or 4K Time-lapse movie

recording

Manual focus (approx. 5x / 10x magnification available for

focus check)

Movie Servo AF: Provided

Digital zoom: Approx. 3x – 10x

Focusing brightness range: EV -2 - 18 (with the center AF point, at room temperature,

f/1.2, ISO 100, One-Shot AF)

Metering mode: Center-weighted average and Evaluative metering with the

image sensor

* Automatically set by the AF method

Metering brightness range: EV 0 - 20 (at room temperature, ISO 100, with

center-weighted average metering)

Exposure control: Autoexposure shooting (Program AE for movie shooting)

and manual exposure

Exposure compensation: ±3 stops in 1/3- or 1/2-stop increments

ISO speed For autoexposure shooting: ISO 100 – 12800 set

(Recommended automatically. In Creative Zone modes, the upper limit is

exposure index): expandable to H (equivalent to ISO 25600).

For manual exposure shooting: ISO Auto (ISO 100 – 12800 set automatically), ISO 100 – 12800 set manually (whole-stop increments), expandable to H (equivalent to

ISO 25600)

For 4K movies or 4K Time-lapse movies: ISO 100 - 6400

HDR movie shooting: Possible

Creative filters for movies: Dream, Old Movies, Memory, Dramatic B&W, Miniature

effect movie

Video snapshots: Settable to 4 sec., 6 sec., 8 sec.

Sound recording: Built-in stereo microphones, external stereo microphone

terminal provided

Sound-recording level adjustable, wind filter provided,

attenuator provided

Grid display: Three types

Time-lapse movie: Shooting interval* (minutes:seconds), Number of shots*,

Movie recording size, Auto exposure (Fixed 1st frame, Each frame), Screen auto off, Beep as image shot settable

* Some limitations apply when Scene 1, Scene 2, or

Scene 3 is used.

Still photo shooting: Not possible during movie shooting

Cards that can record movies:

Movie recording size		Card performance requirements
IPB (Standard)	4K 23.98 fps/25.00 fps	UHS-I/UHS Speed Class 3 or higher
	Full HD 59.94 fps/50.00 fps	SD Speed Class 10 or higher
	Full HD 29.97 fps/25.00 fps	SD Speed Class 6 or higher
	HD 59.94 fps/50.00 fps	SD Speed Class 4 or higher
IPB (Light)	Full HD 29.97 fps/25.00 fps	SD Speed Class 4 or higher

LCD Monitor

Type: TFT color, liquid-crystal monitor

Monitor size and dots: Wide 7.7 cm (3.0 in) (3:2) with approx. 1.04 million dots

Brightness adjustment: Manual (7 levels)

Interface languages: 29

Touch screen technology: Capacitive sensing

Playback

Image display format: Single-image display (without shooting information),

Single-image display (with basic information), Single-image

display (Shooting information displayed: Detailed information, Lens/histogram, White balance, Picture Style 1, Picture Style 2, Color space/noise reduction, Lens aberration correction), Index display (4/9/36/100 images)

Highlight alert: Overexposed highlights blink

AF point display: Provided (may not be displayed depending on shooting

conditions)

Zoom magnification ratio: Approx. 1.5x – 10x

Image search: Search conditions settable (Rating, Date, Folder, Protect,

File type)

Image browsing methods: Single image, 10 images, specified number, date, folder,

movies, stills, protect, rating

Image rotation:ProvidedImage protection:ProvidedRating:Provided

Movie playback: Possible (LCD monitor, HDMI), built-in speaker

Slide show: Automatically play back all images or the images that match

search conditions

Background music: Selectable for slide shows and movie playback

■ Post-Processing of Images

Creative filters: Grainy B/W, Soft focus, Fish-eye effect, Art bold effect,

Water painting effect, Toy camera effect, Miniature effect

Resize: Provided Cropping: Provided

■ Print Ordering

DPOF: Version 1.1 compliant

Customization Features

Custom Functions: 11

My Menu: Up to 5 screens can be registered Copyright information: Text entry and appending possible

Display level settings: Shooting screen, Menu display, Mode guide, Feature guide

■ Interface

DIGITAL terminal: Hi-Speed USB (USB2.0), terminal type: Micro-B

· For PC communication

For compact photo printer connection

HDMI mini OUT terminal: Type C (Auto switching of resolution)

External microphone 3.5 mm diameter stereo mini-jack

IN terminal: Directional Stereo Microphone DM-E1 connection

Remote control terminal: For Remote Switch RS-60E3

Wireless remote control: Compatible with Wireless Remote Control BR-E1 (Bluetooth

connection)

Wireless Features

[Wi-Fi]

Standards compliance: IEEE 802.11b/g/n

Transmission method: DS-SS modulation (IEEE 802.11b)

OFDM modulation (IEEE 802.11g/n)

Transmission frequency Frequency: 2412 to 2462 MHz

(central frequency): Channels: 1 to 11 ch

Connection method: Camera access point mode, infrastructure*

* Wi-Fi Protected Setup supported

Security: Authentication method: Open system, Shared key,

WPA/WPA2-PSK

Encryption: WEP, TKIP, AES

Communication with Images can be viewed, controlled, and received using a

a smartphone: smartphone.

Remote control of the camera using a smartphone is

possible.

Images can be sent to a smartphone.

Remote operation Remote control functions and image viewing functions of

using EOS Utility: EOS Utility can be used wirelessly.

Print from Wi-Fi printers: Images can be sent to a Wi-Fi printer.

Send images to Images in the camera or links to images can be sent to

a Web service: registered Web services.

[Bluetooth]

Standards compliance: Bluetooth Specification Version 4.1 compliant (Bluetooth low

energy technology)

Transmission method: GFSK modulation

Power

Battery: Battery Pack LP-E17 (Quantity 1)

* AC power usable with household power outlet

accessories.

Number of possible shots: With viewfinder shooting:

Approx. 1070 shots at room temperature (23°C/73°F), approx. 1020 shots at low temperatures (0°C/32°F)

With Live View shooting:

Approx. 320 shots at room temperature (23°C/73°F), approx. 300 shots at low temperatures (0°C/32°F)

* With a fully-charged Battery Pack LP-E17

Movie shooting time: 4K:

Approx. 1 hr. 50 min. at room temperature (23°C/73°F)

Approx. 1 hr. 40 min. at low temperatures (0°C/32°F)

Full HD:

Approx. 2 hr. 30 min. at room temperature (23°C/73°F) Approx. 2 hr. 20 min. at low temperatures (0°C/32°F)

* With a fully-charged Battery Pack LP-E17

Dimensions and Weight

Dimensions (W x H x D): Approx. 122.4 x 92.6 x 69.8 mm / 4.82 x 3.65 x 2.75 in.

Weight (Black): Approx. 449 g / 15.84 oz. (Including battery and card)

Approx. 402 g / 14.18 oz. (Body only)

Weight (Silver): Approx. 449 g / 15.84 oz. (Including battery and card)

Approx. 402 g / 14.18 oz. (Body only)

Weight (White): Approx. 451 g / 15.91 oz. (Including battery and card)

Approx. 404 g / 14.25 oz. (Body only)

■ Operation Environment

Working temperature $0^{\circ}\text{C} - 40^{\circ}\text{C} / 32^{\circ}\text{F} - 104^{\circ}\text{F}$

range:

Working humidity: 85% or less

 All the data above is based on Canon's testing standards and CIPA (Camera & Imaging Products Association) testing standards and guidelines.

- Dimensions and weight listed above are based on CIPA Guidelines (except weight for camera body only).
- Product specifications and the exterior are subject to change without notice.
- If a problem occurs with a non-Canon lens attached to the camera, consult the respective lens manufacturer.

Canon